

1206 Multilayer Ferrite Chip Bead

ACML-1206



RoHS
Compliant



3.2 x 1.6 x 0.9mm

FEATURES:

- Multilayer monolithic construction yields high reliability
- Nickel barrier terminations provide excellent solder heat resistance
- Suitable for flow and RoHS reflow soldering

APPLICATIONS:

- Video equipment, audio equipment
- Automotive electrical equipment
- Communication equipment
- OA equipment and other

STANDARD SPECIFICATIONS:

PARAMETERS

| | |
|------------------------|------------------|
| ABRACON P/N: | ACML-1206 |
| Operating temperature: | -55°C to + 125°C |
| Storage temperature: | -55°C to + 125°C |

| Part No. | Z (Ω) ± 25% | Z Test Freq. | RDC (Ω) | Ir (mA) |
|----------------|-------------|--------------|---------|---------|
| | | (MHz) | (max) | (max) |
| ACML-1206-19 | 19 | 100 | 0.05 | 2000 |
| ACML-1206-26 | 26 | 100 | 0.05 | 2000 |
| ACML-1206-31 | 31 | 100 | 0.05 | 2000 |
| ACML-1206-36 | 36 | 100 | 0.05 | 2000 |
| ACML-1206-66 | 60 | 100 | 0.08 | 1000 |
| ACML-1206-80 | 80 | 100 | 0.08 | 1000 |
| ACML-1206-100 | 100 | 100 | 0.10 | 1000 |
| ACML-1206-120 | 120 | 100 | 0.10 | 600 |
| ACML-1206-150 | 150 | 100 | 0.15 | 600 |
| ACML-1206-180 | 180 | 100 | 0.15 | 600 |
| ACML-1206-300 | 300 | 100 | 0.20 | 600 |
| ACML-1206-390 | 390 | 100 | 0.20 | 600 |
| ACML-1206-500 | 500 | 100 | 0.30 | 600 |
| ACML-1206-600 | 600 | 100 | 0.30 | 600 |
| ACML-1206-750 | 750 | 100 | 0.30 | 600 |
| ACML-1206-1000 | 1000 | 50 | 0.40 | 500 |
| ACML-1206-1200 | 1200 | 50 | 0.50 | 300 |
| ACML-1206-1500 | 1500 | 50 | 0.60 | 200 |
| ACML-1206-2000 | 2000 | 50 | 0.70 | 200 |
| ACML-1206-2500 | 2500 | 50 | 0.70 | 200 |
| ACML-1206-3000 | 3000 | 50 | 1.00 | 200 |

Test Conditions and equipments

Z: HP4291 Impedance Analyzer, 100MHz or 50MHz, 50mV

DCR: HP4263A LCR meter

Ir: Electric Power Supplier, Electric Current Meter, Thermometer. ΔT ≤ 20°C

Unless otherwise specified

Temperature : Ordinary Temperature (5 to 35°C)

Humidity : Ordinary Humidity (25 to 85% RH)

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ACML-1206- -

Impedance Code

Please refer to
Electrical Spec table

Packaging

T: Tape and Reel (3kpcs / reel)

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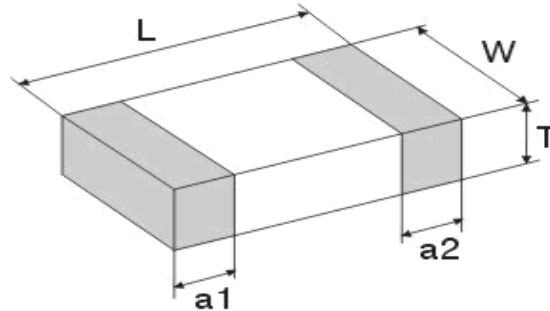


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Compliant



3.2 x 1.6 x 0.9mm

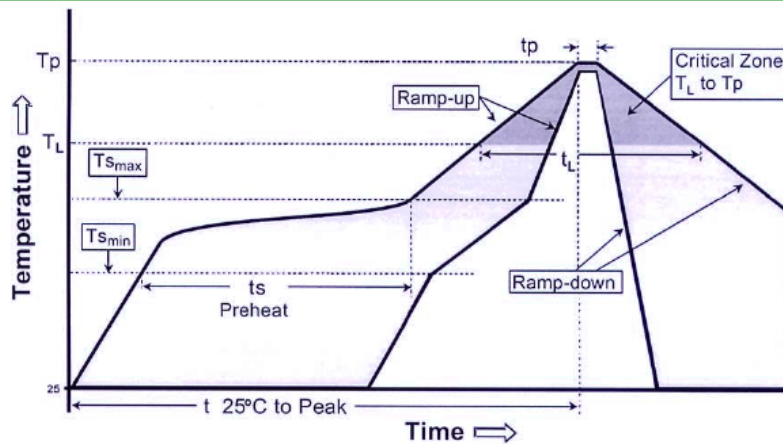
OUTLINE DRAWING:



Dimension: mm [inch]

| Series | L | W | T | a1,a2 |
|-----------|---------------|---------------|---------------|--------------|
| ACML-1206 | 3.20±0.20 | 1.60±0.20 | 0.90±0.20 | 0.50±0.30 |
| | [0.126±0.008] | [0.063±0.008] | [0.035±0.008] | [0.02±0.012] |

REFLOW PROFILE:



| Profile Feature | Lead-Free Assembly |
|---|------------------------------------|
| Average Ramp-Up Rate (T _{smax} to T _p) | 3°C /second max. |
| Preheat - Temperature Min (T _{smin}) - Temperature Max (T _{smax}) - Time (t _{smin} to t _{smax}) min to t _{smax}) | 150 °C 200 °C 60-180 seconds |
| Time maintained above: - Temperature (T _L) - Time (t _L) | 217 °C 60-150 seconds |
| Peak/Classification Temperature (T _p) Peak/Classification Time (T _p) | 260 °C 3-4 seconds |
| Time within 5 °C of actual Peak Temperature (t _p) | 20-40 seconds |
| Ramp-Down Rate | 6°C/second max. |
| Time 25 °C to Peak Temperature | 8 minutes max. |

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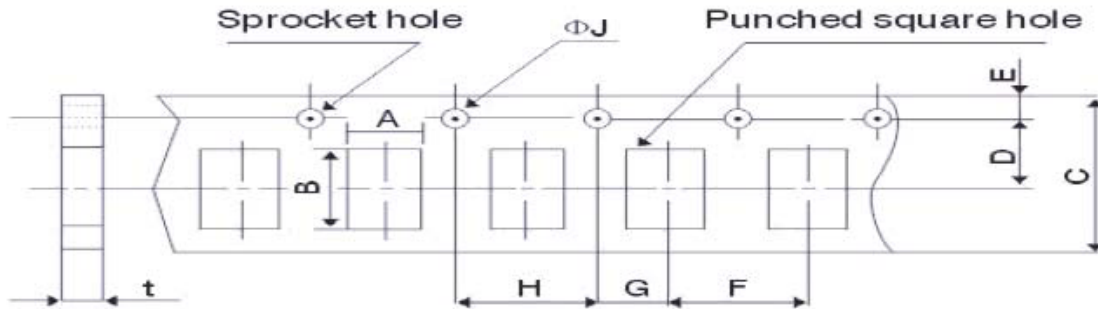
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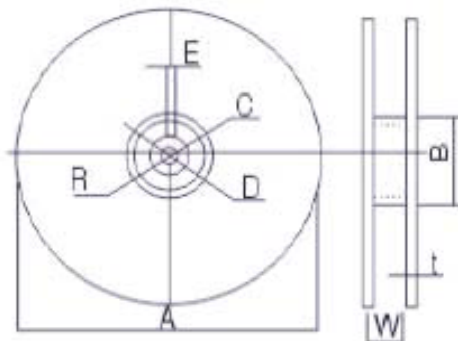
3.2 x 1.6 x 0.9mm

OUTLINE DRAWING:

T: 3,000pcs / reel



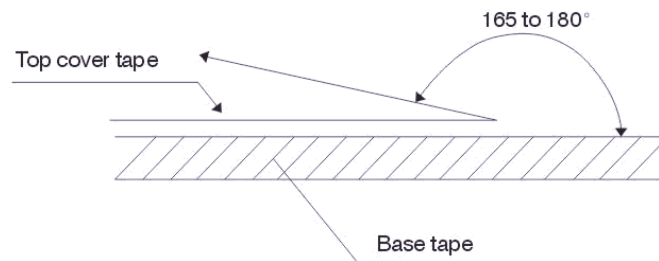
| Codes | A | B | C | D | E | F | G | H | ΦJ | t(max) |
|-----------|---------|---------|---------|----------|----------|---------|----------|---------|------------|----------|
| ACML-1206 | 2.0±0.2 | 3.6±0.2 | 8.0±0.3 | 3.5±0.05 | 1.75±0.1 | 4.0±0.1 | 2.0±0.05 | 4.0±0.1 | 1.5+0.1/-0 | 2.0±0.05 |



| | |
|---|-----------|
| A | 178±2 |
| B | 60±2 |
| C | 13.0±0.5 |
| D | 21.0±0.8 |
| E | 2.0±0.5 |
| W | 10.0±1.15 |
| t | 1.2±0.2 |
| R | 1.0±0.25 |

6.1 Peeling strength of cover tape

0.3~0.7N (30gf~70gf)



Test condition:

- 1) peel angle: 165°~180° vs. carrier tape.
- 2) peel speed: 300 mm/min±10%.

Dimension: mm

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